Multi-Function Security

+ Network Firewall
+ VPN Server
+ Content Manager
+ Bandwidth Manager
+ Transparent Firewall Mode

Advanced Firewall Features

+ Stateful Packet Inspection
+ Detect/Drop Intruding Packets
+ Embedded VPN
+ User Authentication (RAIDUS, LDAP, IAS)
+ Intrusion Detection System (IDS)
+ x.509v3 PKI

Embedded VPN Accelerator

+ Up to 1,200 VPN Tunnels
+ IPsec, PPTP, L2TP, L2TP with IPsec
+ DES, 3DES, AES, Twofish, Blowfish, and CAST-128 Encryption
+ Automated Key Management via IKE/ISAKMP
+ Aggressive/Main/Quick Negotiation
+ xAuthentication

Performance Optimization

+ 802.1q VLAN Tagging
+ Dual-WAN Ports for Active Clustering/ Load Balancing
+ Traffic Shaping/Priority

Enhanced Network Services

+ DHCP Relay
+ SYSLog Support
+ E-mail Alert
+ SNMP Management
+ Consistency Checks

NetDefend Network Security Rackmount VPN Firewall

Overview

The NetDefend family of Firewall/VPN Security Appliances is D-Link's answer for hardware-based network security. The new DFL-1600 NetDefend Network Security Rackmount VPN Firewall is an easy-to-deploy VPN and firewall solution designed for enterprise and small-to-medium sized businesses that demand superior performance and security.

Advanced Hardware Features

The DFL-1600 is a powerful security solution that provides integrated Network Address Translation (NAT), SPI Firewall, advanced content filtering features, IDS protection, bandwidth management, as well as Virtual Private Network (VPN) support. The DFL-1600 includes six configurable gigabit Ethernet ports that can be used for LAN, WAN, and DMZ. All of these features conveniently fit into a 1U rack-mountable chassis that can be easily integrated into your switch/server rack.

Enterprise-class Security

To provide enterprise-class network security, the DFL-1600 has several flexible firewall features to manage, monitor, and maintain a healthy and secure network. Network management features include: Remote Management, Bandwidth Control Policies, URL/Keyword Blocking, Access Policies, and SNMP. For network monitoring, the DFL-1600 supports e-mail alerts, system log, consistency checks, and real-time statistics. For at a glance monitoring, the 20x2 line LCM display provides hardware status info as well as alert events to enable visual verifications. These features along with a firmware backup function provide and maintain maximum network performance and security.

VPN Performance

For optimal VPN configuration, the DFL-1600 has both an integrated VPN Client and Server to support almost any required VPN policy. This high-end appliance has a hardware VPN engine to support and manage up to 1200 VPN connections. The DFL-1600 can support IPSec, PPTP, and L2TP protocols in Client/Server mode and can handle pass-through traffic as well. Advanced VPN configuration options include: DES/3DES/AES/Twofish/Blowfish/CAST-128 encryption, Manual or IKE/ISAKMP key management, Quick/Main/Aggressive Negotiation modes, and VPN authentication support using either an external RADIUS server or the internal 500-user database.

Multiple Network Central Features

Additional network control features supported by the DFL-1600 include 802.1q VLAN tagging and extensive High Availability (HA) features. VLAN tagging supports integration of the DFL-1600 into your rack system with L2/L3 managed switches to segment your network and prioritize traffic. HA options include WAN Fail-Over, Active/Passive Modes, Device Failure Detection, Link Failure Detection, and Session Synchronization. Additionally, support for Active Clustering or Load Balancing optimizes network uptime and performance.

Configurable User Interface

The DFL-1600 can be configured via D-Link's Web-based interface and monitored using the Command Line Interface (CLI). These configuration options can be managed through Admin, Read/Write, or Read-Only administrator rights. With these access management levels, any authorized user can easily configure or access the administrative functions of the DFL-1600.

With businesses becoming increasingly network-dependent, the need to invest in a reliable security solution is crucial. The D-Link DFL-1600 NetDefend Network Security Rackmount VPN Firewall offers high return on investment through robust security features, flexible configuration, and maximum network protection.

NetDefend Network Security Rackmount VPN Firewall

Technical Specifications

Software

Firewall Mode of Operation	+ Layer 3 Mode: Route Mode, NAT Mode	+ Layer 2 Mode: Transparent Mode
	+ Network Address Translation (NAT))	+ Port Address Translation (PAT)
	+ Static Address Translation (SAT)	+ Policy-Based NAT
	+ Port Forwarding	+ Server Load Balancing
	+ Time Scheduled Policies	
VPN Security	+ VPN Tunnels: 300 (IPsec, PPTP, L2TP, L2TP with IPsec)	+ IPsec LAN-to-LAN / Roaming User
	+ PPTP/L2TP Server/Client	+ IPsec Hub and Spoke
	+ IPsec NAT-Traversal	+ DHCP over IPsec
	+ Encryption Transform: DES, 3DES, AES, Twofish, Blowfish, CAST-128	+ XAUTH (Extended Authentication) for IPsec Authentication
Firewall Security	+ Stateful Packet Inspection (SPI)	+ Policy-Based User Authentication
	+ DoS/DDoS Attack Protection	+ RADIUS, LDAP, IAS
	+ HTTP Traffic Filter: Keyword, URL, Exempt List	+ Script Filter: Java Applet, Java Scripts, VB Scripts, Cookies, ActiveX
Network Service	+ Static IP Address	+ PPPoE for xDSL
	+ PPTP/L2TP Client for xDSL	+ DHCP Client for WAN Interface
	+ BigPond Cable, Telia Compliance	+ Internal DHCP Server
	+ DHCP Relay	+ WAN Failover/Load Sharing
	+ IP Alias	+ Static Routes
	+ OSPF Dynamic Routing	+ Policy-Based Routing
	+ DNS Resolving of Remote Gateway	+ Dynamic DNS Poster
	+ Custom Application Layer Gateway	+ Support for IEEE 802.1q VLAN Tag (128)
	+ Firewall Policies per VLAN Tag	+ DHCP Server per VLAN Tag
	+ WAN Failover/Load Sharing	
Bandwidth Management	+ Guaranteed Bandwidth	+ Maximum Bandwidth
	+ Priority-Bandwidth Utilization	+ Policy-Based Traffic Shaping
	+ Time-Scheduled Traffic Shaping	+ Bandwidth Management in VPN Tunnel
System	+ SYSLog Support	+ Firmware Configuration Backup
	+ E-mail Alerts	+ Management – HTTP/HTTPS, SSH
	+ Simple Network Time Protocol (SNTP)	+ Simple Network Management Protocol (SNMP)
	+ Configuration Consistency Checks	

NetDefend Network Security Rackmount VPN Firewall

Intrusion and Detection System	+ NIDS Pattern Auto Update	+ Attack Alarm via E-mail Notification
High Availability	+ Active-Passive HA mode	+ Network Notification on Failover
	+ Device Failure Detection	+ Configuration Synchronization
	+ Firewall/VPN Session Synchronization	+ Average Failover Time: < 800ms
Physical & Environmental		
Diagnostic LEDs	+ Power	+ System
	+ Gigabit Ethernet (Link/Activity per Port)	
Device Ports	+ Gigabit Ethernet: 6 10/100/1000BASE-T Ports	+ Console Port: Serial COM port
LCM Module	+ 20 x 2 Line Liquid Crystal Module	+ Display HW Status and Events
Power Input	AC Input 100 ~ 240VAC 50 ~ 60Hz	
Power Consumption	200 Watts Maximum	
Dimensions (W x D x H)	+ 17.3in x 10.0in x 1.73in	+ 19in 1U Rack Mountable
Weight	8.8 lbs (Device Only)	
Temperature	+ Operating: 32˚ to 140˚F (0˚ to 60˚C)	+ Storage: -4˚ to 158˚F (-20˚ to 70˚C)
Humidity	5% ~ 95% (Non-condensing)	
Emission (EMI)	+ FCC Class A	+ C-Tick
	+ CE	
Safety	+ UL	+ LVD (EN60950)
Warranty	1-Year Limited[1]	

[1] 1-Year Limited Warranty available only in the USA and Canada.

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